

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
1	BRS	L1	4316009	(characteris\$3 determin\$3 measur\$3 evaluat\$3) mass near2 unbalance with tire	US- PGPUB ; USPAT ; USOCR ; DERWE NT	2004/12/07 14:31	
2	BRS	L2	8	(characteris\$3 determin\$3 measur\$3 evaluat\$3) near3 mass near2 unbalance with tire	US- PGPUB ; USPAT ; USOCR ; DERWE NT	2004/12/07 14:00	
3	BRS	L3	24	mass near2 unbalance with tire	US- PGPUB ; USPAT ; USOCR ; DERWE NT	2004/12/07 14:04	
4	BRS	L5	34	mass near5 unbalance with tire	US- PGPUB ; USPAT ; USOCR ; DERWE NT	2004/12/07 14:04	
5	BRS	L6	18	4 and rotat\$3 near2 speed\$2	US- PGPUB ; USPAT ; USOCR ; DERWE NT	2004/12/07 14:18	

	Error Definition	Err ors
1		
2		
3		
4		
5		

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
6	BRS	L8	646	4 and decompos\$3 disect\$3 disolv\$3 near "radial run outs"	US- PGPUB ; USPAT ; USOCR ; DERWE NT	2004/12/0 7 14:07	
7	BRS	L9	0	4 and radial adj run adj outs	US- PGPUB ; USPAT ; USOCR ; DERWE NT	2004/12/0 7 14:07	
8	BRS	L10	0	4 and (decompos\$3 disect\$3 disolv\$3) near "radial run outs"	US- PGPUB ; USPAT ; USOCR ; DERWE NT	2004/12/0 7 14:07	
9	BRS	L7	3	4 and radial adj run adj out	US- PGPUB ; USPAT ; USOCR ; DERWE NT	2004/12/0 7 14:07	
10	BRS	L4	47	mass with unbalance with tire	US- PGPUB ; USPAT ; USOCR ; DERWE NT	2004/12/0 7 14:24	

	Error Definition	Err ors
6		
7		
8		
9		
10		

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
11	BRS	L11	9	control\$3 near3 mass adj unbalance	US- PGPUB ; USPAT ; USOCR ; DERWE NT	2004/12/0 7 14:17	
12	BRS	L12	7197	rro	US- PGPUB ; USPAT ; USOCR ; DERWE NT	2004/12/0 7 14:17	
13	BRS	L13	690	12 and tire	US- PGPUB ; USPAT ; USOCR ; DERWE NT	2004/12/0 7 14:17	
14	BRS	L14	0	13 and mass near2 unbalance	US- PGPUB ; USPAT ; USOCR ; DERWE NT	2004/12/0 7 14:18	
15	BRS	L15	11	13 and unbalance	US- PGPUB ; USPAT ; USOCR ; DERWE NT	2004/12/0 7 14:18	

	Error Definition	Err ors
11		
12		
13		
14		
15		

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
16	BRS	L16	2	15 and rotat\$3 near2 speed\$2	US- PGPUB ; USPAT ; USOCR ; DERWE NT	2004/12/0 7 14:18	
17	BRS	L17	7	"mass unbalance" with tire	US- PGPUB ; USPAT ; USOCR ; DERWE NT	2004/12/0 7 14:24	
18	BRS	L18	43160 08	(charateris\$3 determin\$3 measur\$3 evaluat\$3) mass adj unbalance with tire with "high speed uniformity"	US- PGPUB ; USPAT ; USOCR ; DERWE NT	2004/12/0 7 14:26	
19	BRS	L19	0	(charateris\$3 determin\$3 measur\$3 evaluat\$3) near mass adj unbalance with tire with "high speed uniformity"	US- PGPUB ; USPAT ; USOCR ; DERWE NT	2004/12/0 7 14:27	
20	BRS	L20	0	(charateris\$3 determin\$3 measur\$3 evaluat\$3) same mass adj unbalance with tire with "high speed uniformity"	US- PGPUB ; USPAT ; USOCR ; DERWE NT	2004/12/0 7 14:27	

	Error Definition	Err ors
16		
17		
18		
19		
20		

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
21	BRS	L22	7	tire and "high speed uniformity".ti.	US-PGPUB ; USPAT ; USOCR ; DERWENT	2004/12/07 14:29	
22	BRS	L21	4	tire with "high speed uniformity".ti.	US-PGPUB ; USPAT ; USOCR ; DERWENT	2004/12/07 14:28	
23	BRS	L23	0	22 and mass adj unbalance	US-PGPUB ; USPAT ; USOCR ; DERWENT	2004/12/07 14:29	
24	BRS	L24	37774	(charateris\$3 determin\$3 measur\$3 evaluat\$3) near3 variation	US-PGPUB ; USPAT ; USOCR ; DERWENT	2004/12/07 14:31	
25	BRS	L25	5	22 and (charateris\$3 determin\$3 measur\$3 evaluat\$3) near3 variation	US-PGPUB ; USPAT ; USOCR ; DERWENT	2004/12/07 14:32	

	Error Definition	Err ors
21		
22		
23		
24		
25		

DERWENT-ACC-NO: 2001-585363

DERWENT-WEEK: 200419

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TITLE: High-speed uniformity estimation method for
pneumatic tire, involves computing radial force variation
of tire at high speed, based on measured radial force
variation of tire at low speed and imbalance of tire

PATENT-ASSIGNEE: TOYO RUBBER IND CO LTD[TOYF]

PRIORITY-DATA: 1999JP-0327417 (November 17, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
JP 3507945 B2	March 15, 2004	N/A
014 G01M 017/02		
JP 2001141615 A	May 25, 2001	N/A
014 G01M 017/02		

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
JP 3507945B2	N/A	1999JP-0327417
November 17, 1999		
JP 3507945B2	Previous Publ.	JP2001141615
N/A		
JP2001141615A	N/A	1999JP-0327417
November 17, 1999		

INT-CL (IPC): G01M001/16, G01M017/02

ABSTRACTED-PUB-NO: JP2001141615A

BASIC-ABSTRACT:

NOVELTY - Primary component of radial force variation of the tire at high speed is computed by substituting the measured values of imbalance of the tire and the radial force variation of the tire at low speed in the relationship between

the primary component of radial force variation of tire at high and low speed
and the imbalance of the tire.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for tire classification method.

USE - For estimating high-speed uniformity of pneumatic tire.

ADVANTAGE - Enables to estimate the primary component of radial force variation
of tire at high speed simply and to classify the tire easily based on estimation result.

DESCRIPTION OF DRAWING(S) - The figure shows a side schematic diagram of the
tire. (Drawing includes non-English language text).

CHOSEN-DRAWING: Dwg.1/8

TITLE-TERMS: HIGH SPEED UNIFORM ESTIMATE METHOD PNEUMATIC COMPUTATION
RADIAL

FORCE VARIATION HIGH SPEED BASED MEASURE RADIAL FORCE
VARIATION LOW
SPEED IMBALANCE

DERWENT-CLASS: S02

EPI-CODES: S02-J05;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N2001-436415